

ABSTRACT

5 A device for adaptive distance and speed control in motor vehicles, comprising a sensor
device for measuring the distance and relative speed of a target object located in front of the
vehicle; a regulating device, which has a distance control function to regulate to a specific
distance to the target object and outputs temporally changeable actuating variables (a_m , a_b) to
actuating elements of the drive and/or brake system of the vehicle; and a torque dampener for
limiting the temporal changes of the actuating variables, characterized by a dynamic device
that detects sudden changes in the traffic situation detected by the sensor device and restricts
10 the function of the torque dampener according to the situation while maintaining distance and
speed control.